



High Flow Sonde Housing

Operating Instructions

Type:-

3 5/8" WAVE SPRING SONDE HOUSING
2 3/8 REG PIN - 2 3/8 IF BOX

Serial No:- 69495-02

Date:- 07/01/21

Contents

Please read this booklet before using your sonde housing

Contents	Page 1
Introduction	Page 2
Fitting the transmitter	Page 3
Preparing the housing	Page 4 & 5
Care & maintenance	Page 6

IMPORTANT NOTE –

All (four) tool joints need to be broken in before first use. Each joint should be tightened to full torque and then loosened, this should be repeated 3 times for each joint.

Introduction

The Brewis High Flow Sonde Housing has been specifically designed for

Digitrak® Falcon 15" & 19" Transmitters

It is manufactured using premium grade high tensile steel materials for optimum performance.

Diameters of housing available:

3 1/8"(80mm)	3 5/8" (92mm)
4 1/8" (105mm)	4 3/4" (120mm)
6 1/2" (165mm)	7 7/8" (200mm)
8 1/8" (206mm)	

The assembly consists of 5 main components –

- 1) The cutting head and plates. (Optional)
- 2) The front cap or indexing sub.
- 3) The housing body.
- 4) The rear cap.
- 5) The capsule assembly.



Fitting the transmitter

Down hole



Up hole



Cutaway view of dog (3)



Old type gland nut



New type gland nut

- 1) Remove the capsule rear cap & gland nut.
- 2) Slide the transmitter into the capsule.
- 3) Turn the transmitter until the dog is located.
- 4) If using a 15" transmitter slide the brass spacer into the capsule body.
- 5) If using a wire transmitter thread the cable through the spacer, spring and cap.
- 6) Screw the cap carefully into the capsule body. Make sure both ends are screwed on fully.
- 7) Slide the O rings, brass spacers and gland nut on to the wire.
- 8) Screw the gland nut back onto the rear cap.

Preparing the housing assembly

1) The housing body

Identify the front and rear of the housing body.

The body is marked “Front” on the down hole end and “Rear” on the up hole end. If this is no longer readable try to slide the capsule assembly into the housing. The capsule assemble will only fit into the rear.

Check the threads and the plastic liner for damage and apply plenty of rod release compound to the joints.

2) Front Cap (Indexing Sub)

Check the internal and external O rings for damage and lubricate with silicone grease or similar.

Check the indexing slots are clean and undamaged.
Screw the cap into the front of the housing body by hand.



3) Fit the capsule assembly

Slide the capsule assembly into the rear of the housing. You will feel the locating dogs engage in the slots of the indexing sub. Rotate the capsule assembly until the twelve o'clock position on the transmitter aligns with the steering plate (or bent sub etc.) and push the capsule assembly firmly into the locating slots.



Failure to engage the capsule assembly fully into the slots may result in damage to the transmitter.



Cutaway View

Dog must locate fully in to indexing slots.

4) Fit the rear cap

Check the O rings for damage. Replace or lubricate if needed. Apply rod release compound to the pin and screw carefully into the housing body by hand. If possible use a test meter to ensure the transmitter is earthed to the housing.

The assembly can now be attached to the drill string and the joints tightened.



Care & Maintenance



CAUTION – Please ensure the tool joints in your housing are regular smeared with anti-seize type grease.



CAUTION – Please ensure the O rings inside the housing are lubricated with silicone fluid or grease.



**ALL JOINTS SHOULD BE HAND TIGHT
BEFORE TORQUING UP – GAP BETWEEN
PARTS <3mm**

Please quote the housing serial number when ordering spares.

Brewis Engineering Ltd
Unit 4 Handlemaker Road
Marston Trading Estate, Frome, Somerset
BA11 4RW
United Kingdom
Tel: +44 (0) 1373 451387
Fax: +44 (0) 1373 452714
Email: sales@brewisengineering.co.uk

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